

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANAPOLIS

2C1C
Lake
REFERENCE 108

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OFFICE MEMORANDUM

TO: Construction Plan File

FROM: Duane Leith DL 7-28-87
Engineering Section

SUBJECT: Survey Results
Gary Development Landfill
Lake County

DATE: July 24, 1987

THRU: Christa Henson CH 7-29-87

C000725

Staff conducted a survey of the Gary Development Landfill Site on June 15, 1987, to determine current elevations, remaining fill area and remaining borrow area. The recently filled area in the north central part of the site is generally close to the previously approved final contours with no significant overfilling, as shown on the attached survey plot plan.

The remaining fill area is approximately 8 1/2 acres in the center of the site. There is also a small area at the extreme north central part of the site, which may or may not be filled depending on what is done to construct a clay wall there and to control leachate. The remaining fill volume is approximately 580,555 cubic yards, which can hold approximately 464,444 cubic yards of solid waste, if 20 percent of the volume is taken up by daily cover, or which can hold 580,555 cubic yards of solid waste if no cover is applied, as appeared to be the case at the time it was surveyed.

If the remaining base of the landfill could be excavated to the previously approved depth of approximately 40 feet below the existing elevation, 296,296 cubic yards of clay could be obtained for cover. This would be sufficient to meet the 116,111 cubic yards required for daily cover plus 161,333 cubic yards required for a two-foot final cover plus about half the clay needed for a perimeter seal along the north and west sides of the site.

Numerous and voluminous leachate streams were observed draining into the low areas in the central and north central parts of the site. Some of the consolidated ash previously landfilled in the eastern part of the site had been recently excavated and appeared to have been used as cover or to improve trafficability of the surface of the solid waste.

DL/drc

Attachment

cc: Mr. Steve Schaffer (with attachment)
File 2C1C (without attachment)

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